PROCESS FOR PREPARING A NON-CONDUCTIVE SUBSTRATE FOR ELECTROPLATING

A composition and process for electroplating a conductive metal layer onto the surface of a non-conductive material is disclosed. The composition and process utilizes an obvious dispersion traditional carbon black particles and highly conductive carbon black particles. The mixture of carbon blacks provides optimum dispersion and electroplating properties.
INTERNATIONAL SEARCH REPORT

A. CLASSIFICATION OF SUBJECT MATTER
   IPC(7) : H01B 1/00, 1/04; C25D 5/54, 5/56, 5/34; H05K 3/00
   US CL : 252/500, 502; 205/159, 162, 163, 164, 166, 210, 125
   According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED
   Minimum documentation searched (classification system followed by classification symbols)
   U.S. : 252/500, 502; 205/159, 162, 163, 164, 166, 210, 125
   Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
   Please See Continuation Sheet

C. DOCUMENTS CONSIDERED TO BE RELEVANT

<table>
<thead>
<tr>
<th>Category</th>
<th>Citation of document, with indication, where appropriate, of the relevant passages</th>
<th>Relevant to claim No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Y</td>
<td>US 6,235,182 B1 (BELE et al.) 22 May 2001 (22.05.2001), col. 6, line 58 to col. 7, line 13.</td>
<td>1-11</td>
</tr>
<tr>
<td>Y</td>
<td>US 6,440,331 B1 (CARANO et al.) 27 August 2002 (27.08.2002), col. 3, line 61 to col. 4, line 52.</td>
<td>1-11</td>
</tr>
</tbody>
</table>

* Further documents are listed in the continuation of Box C. | See patent family annex.

Special categories of cited documents:

"A" document defining the general state of the art which is not considered to be of particular relevance

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Date of the actual completion of the international search: 16 November 2005 (16.11.2005)

Date of mailing of the international search report: 07 Dec 2005

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Form PCT/ISA/210 (second sheet) (April 2005)
Continuation of B. FIELDS SEARCHED Item 3:
EAST, STN
search terms: carbon black, dispersing agents, alkali metal hydroxides, water, electroplating